

## **SURFACE MODIFICATION OF METALS FOR BIOMOLECULE DETECTION USING SURFACE ENHANCED RAMAN SPECTROSCOPY (SERS)**

### **ABSTRACT OF THE DISCLOSURE**

The present invention is based on the discovery that the methods described herein for the production of metallic colloids result in colloids exhibiting increased signal enhancement and reproducibility for the SERS detection of biomolecules. Thus, using the methods of the invention, a wide variety of biomolecules can be detected with a greater sensitivity and reliability.

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